Schedule of Events
Recognition Weekend • May 1-2, 2009

Friday, May 1st

9:00 a.m. – 5:00 p.m. ........ The Charles Proteus Steinmetz Symposium
Presentations on student creative, scholarly and research achievement. Programs
and information are available in the Arts Atrium, just inside the north entrance
to Social Sciences and just inside the entrance to the Olin Building
Student presentation sessions begin at 9:00 a.m.

1:00 – 4:00 p.m. .......... Becker Career Center Open House
Becker Career Center

5:30 – 8:00 p.m. .............. AEPi & Golub House Cinco de Mayo Fiesta
Golub House

6:30 p.m. .................. Steinmetz Symposium Banquet
Upperclass Dining Hall
For Symposium presenters, their parents, guests, and faculty sponsors

8:00 p.m. .................. The Union College and Community Orchestra and Choir
Memorial Chapel
“Steinmetz Concert 2009”

Saturday, May 2nd

11:00 a.m. – 12:30 p.m. .... Prize Day
Memorial Chapel

12:30 – 1:30 p.m. .......... Prize Day Reception
Reamer Campus Center Patio

1:00 – 2:00 p.m. .......... Union College Jazz Ensemble
Taylor Music Center
Fred L. Emerson Foundation Auditorium

The C-Store will be open:
Friday from 8:45 a.m. – 11:00 p.m.
Saturday from 10:30 a.m. – 11:00 p.m.
Sunday from 10:00 p.m. – 11:00 p.m.

The Nott Memorial will be open:
Friday from 9:00 a.m. – 8:00 p.m.
Saturday from 9:00 a.m. – 6:00 p.m.
Sunday from 10:00 a.m. – 6:00 p.m.

Bookstore will be open:
Friday from 8:45 a.m. – 4:30 p.m.
Saturday from 10:30 a.m. – 4:00 p.m.
Sunday from 10:00 a.m. – 3:00 p.m.

Schaffer Library will be open:
Friday from 8:00 a.m. – 10:00 p.m.
Saturday from 10:00 a.m. – 10:00 p.m.
Sunday from 10:00 a.m. – 2:00 a.m.
Charles Proteus Steinmetz (1865-1923) was "the most widely known professor ever a member of the Union College faculty." Steinmetz served as the Chief Consulting Engineer of the General Electric Company and was widely regarded as the leading electrical engineer in the United States. He nonetheless took charge of Union's new electrical engineering curriculum, serving as Professor of Electrical Engineering and Applied Physics from 1902 until his death in 1923. Far from merely lending his name to the endeavor, Steinmetz served actively as a lecturer in both undergraduate and postgraduate courses. He wished for his students "the spirit of divine discontent, for without it the world would stand still."

Union is proud to dedicate The Charles Proteus Steinmetz Symposium on Student Creative, Scholarly and Research Achievement to the memory of this scholar, teacher, and practitioner.

Kristin M. Fox
Director of Undergraduate Research
Sessions are at the following times

**Friday, May 1st, 2009**

**SESSION I**
9:00 – 10:20 a.m.  
*Concurrent Oral Presentations* in Bailey Hall, the Humanities Building, the Olin Building, the Science & Engineering Center and the Social Sciences Building

**SESSION II**
10:30 a.m. – 12:10 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, the Social Sciences Building, and the Taylor Music Center

**SESSION III**
12:20 – 1:50 p.m.  
*Poster Session, other Special Presentations*

**SESSION IV**
2:00 – 3:20 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, and the Social Sciences Building

**SESSION V**
3:30 – 5:10 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, and the Social Sciences Building

Improvisational Theater Performance in Yulman Theatre

4:00 – 5:30 p.m.  
*Dance Performances* in the Nott Memorial

8:00 p.m.  
Steinmetz Concert, Memorial Chapel

**Saturday, May 2nd, 2009**

1:00 – 2:00 p.m.  
*Jazz Ensemble* in the Taylor Music Center, Fred L. Emerson Foundation Auditorium

Student Visual Arts exhibitions are in the Burns Arts Atrium throughout the weekend.
Session 1

9:00 – 10:20 a.m. Concurrent Oral Presentations

Arts—215
Art History

KELLY CRAPAROTTA
The Gift of Warhol

MEGAN HYNDMAN
Art, Death, and Politics in Renaissance Florence: The Tomb of Cosimo de' Medici

Moderator: Louisa Matthew

Bailey Hall—201
Mathematics I

SARAH BRITTON
The Elliptic Curve Factoring Algorithm

MARGARET CALLAHAN
Leonhard Euler and The Motion of Comets in Parabolic Orbits

SARAI CANARIO
Mathematical Explanation of Pendulum Motion

CHELSEA ZIOBRO
Euler's Rechenkunst (Arithmetic)

Moderator: Kim Plofker

Bailey Hall—207
Biological Sciences I

COLLEEN EASTON
Characterizing Gut Looping in Chicken Embryos

AMY FRANKENTHALER
Impact of Concomitant Immunosuppression on the Presentation and Prognosis of Patients with Melanoma

MEGAN KAKNIS
Developmental regulation of phagocyte receptor genes during the asexual budding cycle in an ancestral chordate.

MATTHEW KEARNEY
Developmentally-regulated expression of caspases during cyclic blastogenesis in a colonial urochordate.

Moderator: Rob Lauzon

Bailey Hall—312
Psychology I

ANDREW SCIPALEN
Adventure programs: Long term effects on college students

JORDAN ZELINGER
The Effects of an Acute Bout of Aerobic Video-Exergaming on Cognitive Ability

JENNIFER LACHANCE
The Tripartite Security System: A Closer Look at its Effects Over a Series of Seven Days

JAMES SCHWABACH
Going All In: The effects of Mortality Salience on Risk-Taking While Gambling

Moderator: Joshua Hart
Session I

9:00 – 10:20 a.m.  Concurrent Oral Presentations

Humanities Building—008  Moderator: Hans-Freidrich Mueller

Classics I

MICHAEL GLICKMAN  Insults: Their Importance and Impact in Ancient Rome.
JESSICA LATINO  The Fathers and Daughters of Ovid’s Metamorphoses Mirrored in Augustan Society
SHANON PACKER  Representations of Women Athletes in Ancient Greece

Humanities Building—014  Moderator: Judith Lewin

English Honors Theses I

MEREDITH LIPPMAN  Political Implications in Rock and Roll Music from the Vietnam War Era
KAREN SELCHICK  Interpreting the Other Through Three Stages of Intellect in Harry Potter
CARA GALLIVAN  From Hanoi to Baghdad: An Analysis of Mainstream Press in Times of Foreign Conflict
ERIN SCHUMAKER  Changed Light, A Poetry Collection

Humanities Building—019  Moderator: Andrew Morris

Disaster Relief and Prevention: Historical and Contemporary Perspectives

CHRISTINA DEMPSEY  Debilitating Disasters: The Incorporation of Mental Health in the Disaster Relief Act of 1974
ALEX HANDIN  Addressing the American Flood Problem: Flood Control Structures versus Flood Plain Management, an Environmental History Perspective
SARAH YERGEAU  Charity Hospital System: Suggestions for Change in the Aftermath of Hurricane Katrina
GREGORY MITCHELL  Tragedy at Memorial: Katrina’s Effects on Health Care and the Euthanasia Debate

Humanities Building—112  Moderator: Charles Batson

French & Francophone Studies

STEPHANIE BERLIND  Diderot, Voltaire, et les Défauts de l’Europe: The Manipulation of the Noble Savage to Criticize Western Society
JESSICA DOLBEARE  Women’s Experiences in the Men’s World of Soccer in France
KAITLYN O’CONNOR  Can France be both a Liberal Democracy and a Secular Nation?
LAUREN OBST  Public Service, Private Struggle: The Subversive Voice of a Canonized French Storyteller

Olin Building—106  Moderator: Zhang Wu

Environmental Studies

JESSICA STEIN  The Role of Nuclear Energy in Addressing the Energy and Environmental Crisis
ALEXANDIRA ZIRBEL  A Social Impacts Study: Guam Military Buildup Effects on Marine Resources
# Session I

## 9:00 – 10:20 a.m. Concurrent Oral Presentations

### Olin Building—115

**Nanotechnology**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>STEVEN HERRON</td>
<td>Third Generation Solar Cells Based on the Inclusion of Quantum Dots and Ruthenium Dyes within Laponite Films</td>
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<tr>
<td>MICHAEL TOPKA</td>
<td>Nanomorphology Studies of pEDOT in Organic-Inorganic Photovoltaic Devices</td>
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<tr>
<td>URSULA WILLIAMS</td>
<td>Functionalization of CdSe Nanocrystals for Inclusion in a Solar Energy Device</td>
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<tr>
<td>MICHELLE ROGERS</td>
<td>The Influence of Carbon Nanotubes in Softball Bats</td>
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### Olin Building—307

**Environmental Science & Geoscience I**

<table>
<thead>
<tr>
<th>Speaker</th>
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<tbody>
<tr>
<td>BRANDON BOLDT</td>
<td>Late Holocene climate of the central Andes identified from sedimentary, stable isotopic, geochemical and biological proxies</td>
</tr>
<tr>
<td>JORDAN SILLETTI</td>
<td>An Energy Audit of Beuth House &amp; Richmond Hall</td>
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<tr>
<td>AMANDA Bucci</td>
<td>Timing of slumping determined from growth asymmetry in <em>Tsuga canadensis</em>, Bowman Creek, Mohawk River watershed, NY</td>
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<tr>
<td>DOUGLAS MERKERT</td>
<td>Detrital zircon fission track ages of the Wishbone and Chickaloon (Paleocene-Eocene) formations in the Matanuska basin, southern Alaska</td>
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### Science & Engineering Center—N205

**Computer Engineering & Computer Science**

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<thead>
<tr>
<th>Speaker</th>
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<tbody>
<tr>
<td>OWEN HENEGHAN</td>
<td>Wii Punch: Tracking and Gesture Recognition for 3d Game Environments</td>
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<tr>
<td>DANIEL GNOUTCHEFF</td>
<td>Controlling Head Parking on Laptop Hard Drives</td>
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<td>UMBERTO CAPUANO</td>
<td>Emergency Alert System for Union College Television and Radio</td>
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<td>NICKOLAS POTVIN</td>
<td>A Pedagogical Tool for Usability Science</td>
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<td>BENJAMIN LYNCH</td>
<td>Freeing video games from programmed restrictions</td>
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### Science & Engineering Center—N210

**Persuasion**

<table>
<thead>
<tr>
<th>Speaker</th>
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<tbody>
<tr>
<td>ALAN FOX</td>
<td>Stereotypes and Advertising: The Relationship Between Personal Need for Structure and the Assessment of Race-Related Sports Advertisements</td>
</tr>
<tr>
<td>MARISA GREENBERG</td>
<td>Who’s Buying It: Does Erikson’s Theory of Psychosocial Development Predict Persuasion?</td>
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<tr>
<td>ELISE WAKELAND</td>
<td>Sex Guilt and Persuasion</td>
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<tr>
<td>ROSE FOLEY</td>
<td>Reducing Prejudice in Right-Wing Authoritarians: The Effect of Cognitive Dissonance in Changing Social Attitudes</td>
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</tbody>
</table>
Session 1

9:00 – 10:20 a.m. Concurrent Oral Presentations

Science & Engineering Center—N304

Astronomy and Physics

DAVID LUDWIG  
Laser Cooling and Trapping of Single Krypton Atoms

DAVID BARKER  
Photometric Detection of Transiting Extrasolar Planets

THOMAS PERRY  
Radio-Frequency Studies at Super-High Resolution of Two Compact Radio Galaxies

PETER BONVENTRE  
Search for the Eta-Mesic Nucleus From Photo-Production on He-3 in CLAS

Social Sciences Building—012

East Asian Studies

JOHN FRANCIS  
Shojo Manga Subverting Heteronormative Structures

JACQUELINE OSTROFSKY  
The Worlds of Society and Self in Haruki Murakami’s Fiction

Social Sciences Building—014

Anthropology I

ANNE HANSON  
Culture and Sex Education: Examining Notions of Cultural Sensitivity in Delivering Comprehensive Sex Education

KATHERINE NEWINGHAM  
Cultural Barriers to Going Green

BRIAN ROSENBLATT  
The Brunt of the Joke: Behind the Laughs in Fijian Society

TAMAR SOROKER  
Corpulent Commercials: The Response of Television Food Advertisements to the Childhood Obesity Crisis in America

Social Sciences Building—016

Sociology I

ANNIE BENFIELD  
The N Word: Comprehending the Complexity of Stratification in American Community Settings

SHARONA MOORE  
Images and Reflections of Black Mothering in Visual Culture and Empirical Literature

AMELIA WHITNEY  
The Medicalization of American Maternity Care: A Social Analysis

SIDNEY OLEFSON  
The Impact of Health Consumerism and Disease Advocacy Organizations on the Doctor-Patient Relationship

Social Sciences Building—017

Economics Honors I

ALEXANDRA GIROMINI  
Has the Euro Affected where Germany Exports its Goods?

IAN DEMPSEY  
Patent Power: A Driving Force in Industry Growth and Prosperity

MICHAEL DILLON  
The Effects of Government Programs on Renewable Energy in the U.S.

NIKHIL PATEL  
The determinants of corruption: Results from new data and instruments
Session II

10:30 a.m. – 12:10 p.m. Concurrent Oral Presentations

Arts Building—215
Visual Arts

Moderator: Chris Duncan

MEGAN SESIL
Suggested Planes: Nature Abstracted

ALEXANDRA DUBODEL
Mary Cassatt and Berthe Morisot: Self-Portraits and Images Featuring Them by Edgar Degas and Edouard Manet.

IAN BRENNAN
I Don’t Care Anymore

Bailey Hall—201
Mathematics II

Moderator: Christina Tonnesen-Friedman

JOHN ROBENS
Analysis and exploration of mathematical models pertaining to changes in body weight

PETER BONVENTRE
Mathematical Modeling on Cell Phone Energy Usage

STEVEN NEIER
JOHN ROBENS

KATE COLANTUONO
Phi: The Irrational Number

MICHAEL TOPKA
Batting Around with Continued Fractions: Exploring the use of Continued Fractions to Determine Batting Records

ANDREW MACKENZIE
The Mediancentre-Borda Rule and One-Way Monotonicity

Bailey Hall—207
Biological Sciences II

Moderator: Scott Kirkton

ELIZABETH NYBERG
Enzymatic Changes in Schistocerca americana Grasshoppers During Development

ELIZABETH STANFORD
The effect of hyperoxia and hypoxia on the production of lactic acid in the jumping muscle of the American Locust (Schistocerca americana).

MARGARET CAPOTOSTO
Evaluating Drag Forces Experienced by the Aquatic Frog Xenopus laevis During Gliding

ZACH PORTMAN
A 3-Dimensional Model of Bryophyte Canopy—Light Interaction

Bailey Hall—312
Psychology II

Moderator: Cay Anderson-Hanley

LARISSA CHUDOMEL
Interactive Video Exer-Games for Older Adults: Cognitive and Physical Effects

ROBYN SCHNEIDERMAN
Effects of Exergaming Autism

SARAH WESTEN
Mediating effects of BDNF and IGF-1 on videogame-enhanced exercise for older adults: Results from the Cybercycle Study

AMY KEMMLER
The Effects of Marketing Strategy, Income and Gender on Decision to Purchase: A Comprehensive Analysis of the Consumer Decision Making Process

NOZOMI SAKATA
Spirituality Alteration Following Dance Classes
Session II

10:30 a.m. – 12:10 p.m. Concurrent Oral Presentations

Humanities Building—014

English/Modern Languages and Literatures

Moderator: Hugh Jenkins

KIMBERLY GIAMBATTISTO: Terroir: Philosophies of the Cuisines of France and China
ELIZABETH MARIAPEN: ‘Oh My God I Think I Love You, So What Am I So Afraid Of?: Milton’s Paradise Lost and E. Lockhart’s The Boyfriend List
EMMA KROSSCHELL: A Reader and a Writer: Poetic Exploration
MILES KUEFFNER: Surrealist Women: Objects or Subjects of Desire?
MARIE SCHUBERT: Spanish Immersion: Challenges and Controversies

Humanities Building—019

Philosophy

Moderator: Chalmers Clark

JENNIFER ATKINSON: Resurrecting Terri Schiavo: Advance Directives in Modern America
JESSICA HANIBODE: Who has the Right to Stop Treatment in Innovative Care, the Physician or the Patient?

Humanities Building—112

Classics II

Moderator: Hans-Freidrich Mueller

RICHARD CAISTER: Socrates: The Man, the Myth, the Legend
GINA CHIUMINATTO: The Problem of Formal Equivalence: Metrical translation of Anacreon and Baudelaire
SARAH COLEMAN: Thucydides as a Model for the Writings of Sallust: A Stylistic Comparison
CHUCK FONTANA: Translating the Jesuits: Syrian Mission of 1626

Olin Building—106

Chemistry and Chemical Biology

Moderator: Joanne Kehlbeck

BRADLEY GOLDBERG: The solid-phase synthesis of new peptoid molecular transporters
ELIZABETH ZAMORE: Synthesis and Evaluation of a Novel Molecular Transporter
LAURA CASTELLANO: Preparation of C2-Symmetric Transition Metal Complexes
DANIEL BAILEY: Investigating para-hydrogen induced polarization (PHIP) in hydrogenation reactions
### Session II

**10:30 a.m. – 12:10 p.m.  Concurrent Oral Presentations**

**Olin Building—115**

**Biochemistry I**

- **MICHAEL VAN METER**
  - Abf1p: An Investigation into the Mechanism Underlying a Transcriptional Memory Effect in Yeast

- **LUISA CABRERA**
  - The Effect of Side-chain Conformation on Dipeptide Electrostatic Energy

- **DANIEL MARTINELLI**
  - IgA Mediated Protection against *Salmonella enterica* servor Typhimurium Compromises Barrier Function

- **EVAN SCHLOSS**
  - Cloning and Expression of a Metacaspase Gene from the mushroom-producing fungus *Schizophyllum commune*

- **SHAZIA BAIG**
  - Identification and Cloning of a Second Putative Metacaspase from *Schizophyllum commune*

**Olin Building—307**

**Environmental Science and Geoscience II**

- **JONATHAN CAMPANO**
  - Dendrogeomorphology as a means to measure inter-seismic subsidence, Alaganik Slough, Copper River Delta, Alaska

- **JULIE LA SPINA**
  - The Effects of Fire and Deer Herbivory on Oak Regeneration in an Eastern Deciduous Forest

- **NIELS OLSEN**
  - Making Compost Harder Better Faster Stronger

- **JACOBI KLEIN**
  - Photodegradation of Ultraviolet Filter Chemicals in Natural Surface Waters

**Science & Engineering Center—N304**

**Mechanical Engineering I**

- **MATT BEENEN**
  - The Design and Construction of a High Efficiency and Performance Vehicle

- **EDWARD LINCOLN**
  - Design of a Fiber Placement Nozzle in Manufacture of Composite Parts

- **CAILEIGH WARREN**
  - Investigation of Flow through Artificial Mitral Heart Valves and the Development of a Flow Simulation System

- **CHRISTINE FARRELL**
  - Design of a Self Inflating Personal Flotation Device able to be Manually Re-Armed

**Social Sciences Building—012**

**Political Science I**

- **MEAGAN KEENAN**
  - What is to be Done?: Fordism and the demise of working class identity in the United States

- **SHANIQUE KERR**
  - Jamaican Primary Level Education: Cultivating Global Leaders

- **SEAN MULKERNE**
  - Bellum Americanum: The Neoconservative Influence on US Foreign Policy

- **ZACHARY PATNODE**
  - The Clash and Rage Against the Machine Through the Lens of Marcuse and Gramsci

- **GREG KARAMIAN KARAMIAN**
  - Music and its Emotional Effects in Politics: A Study on September 11th

**ADRIENNE HART**
Session II

10:30 a.m. – 12:10 p.m. Concurrent Oral Presentations

Social Sciences Building—014

History I

STEPHANIE BERLIND
The Noble Savage and Europe:

JARED IACOLUCCI
Popular Opinion of the British Empire: An analysis of media coverage during the Arab Rising of 1920

MICHAEL BARTLES
Carpetbaggers: the Slandered Servants of Reconstruction

JOHN NOBREGA
Political Machines

Moderator: Melinda Lawson

Social Sciences Building—016

Sociology II

MARIEL FOX
Constantly Connected: The Internet’s Effect on Face-to-Face Interaction

ASHLYN PENDLETON
Put Your Best Shoe Forward: An Exploration of Modern Fashion as a Way to Create Self-Identity and Manage Impression

SHARONA MOORE
Sexual Ambivalence: Understanding Race, Class, Gender and Attitudes Toward Prostitution

KATIE PANDOLFO
9/11 Health Activism

JULIA VU
Attitudes and Preference of Vietnamese People toward Folklore and Scientific Medicine

Moderator: Janet Grigsby

Social Sciences Building—017

Economics Honors II

PATRICIA LINDEN
The Role of Uncertainty in Aggregate Investment

MALLORY MASON
Exploring State-Specific Policies to Address the Problem of Rising Obesity in the U.S.

LINDSEY SHELLEY
Interest Rates and Asset Bubbles: How Low is Too Low?

FARIHA RAMAY
Impact of Payer Status on Utilization of Ambulatory and Hospital Services

Moderator: Eshragh Motahar

Taylor Music Center—120

Music

LUKE BRYDEN
Composition and Audio Production of an Original Concept Album

PETER MACDONALD
Changing Days

MAXWELL TAYLOR
Making the Musical: An Inside Look

Moderator: Timothy Olsen
**Session III**

**12:20 – 1:50 p.m. • Special Presentations**

Olin Rotunda

**Poster Session I**

**CHRISTOPHER PILLSBURY**  
**JOHANNAH RYAN**  
**MICHAEL MARTIN**  
**ANGELA MCLELLAND**

How fast are U? Integrating science, technology, engineering, and mathematics in testing reaction time.

**LINAH RUSERE**

Synthesis and Crystal Structures of Ni(II), Cu(II) and and mu-oxo-Fe(III) Complexes of a salen Type Ligand and Comparison to the Co(II) Analogue: Mononuclear Versus Multi-nuclear Complex Formation Based on the Identity of the Metal Center

**PHILIP CASTONGUAY**

The impact of color and motion on detection of visual stimuli in Anolis lizards.

**HUIQING ZHENG**

Engineering *Escherichia coli* for Enhanced Butanol Tolerance

**PAUL HEBERT**

Spectroscopic Analysis of Metal-Porphyrin Complexes in Aerogels

**CHARLES HARRINGTON**

Development of a Constant Acceleration Mössbauer Spectrometer for Environmental Research

**KATHERINE HALKYARD**

Evidence for a primitive water-absorbing organ in the little skate, *L. erinacea*.

**KATELYN O'BRIEN**

Using ALFALFA to Study the HI Content of the Galaxy Group NGC 5846

**GREGORY KELLY**

Solar PV Powered Thermoelectric Refrigerator

**LASANTHA PATHIRANA**

Development of Wind/Solar Hybrid Power System

**KYLE KESEL**

Does removal of invasive black locust ensure a successful return to pre-invasion soil characteristics?

**ELISABETH HIGGINS**

Medicare: Part D

**VIKRAM RAVIKUMAR**

The Distribution of Campaign Contributions in Congressional Races
Session III

12:20 – 1:50 p.m. • Special Presentations (cont’d)

Reamer Campus Center
Poster Session II

Moderator: David Hodgson

CONOR DODD
Collaborative Control in Robotics

DALE CHAPUT
Evaluating the efficiency and mechanism of cellular uptake of a novel cell-penetrating peptide and peptoid

DANIEL SPERO
Searching for the Determinates of Retail and Business Development Success in Upstate New York’s Post-industrial Cities

TOMAS SADILEK
Two-dimensional Gel Electrophoresis

BENJAMIN COHEN
Investigation of a Radiant Heating System

ROCIO MONTERO
Dido’s Tragedy: Different Interpretations of Dido in Historical and Classical Texts in Comparison to Depictions of Dido in Baroque Art

SHANNON BRADY
The Geological History of Montserrat

JOE CATALANO

KAITLIN CLARK

REBECCA GRONCZNIAK
Volcanic Processes of Soufriere Hills, Montserrat

DOUGLAS MERKERT

MATTHEW KISSANE

TYLER WILLEY
Monitoring Techniques Used On the Soufriere Hills Volcano

BRANDON BOLDT

STEVEN MCDERMOTT

ZACHARY SMITH
Bioassay guided fractionation of anthelmintic compounds from Paulownia tomentosa

HYEON HWANGBO
Improvement of an Enzyme Kinetics Experiment for a Biochemistry Course

BRIAN CARD
Machine Learning and Music: An Automatic Harmonization System

VALERIE ANGELL
Design and Application of Theatrical Makeup
### Session IV

**2:00 – 3:20 p.m. Concurrent Oral Presentations**

#### Social Sciences Building—014

**Anthropology II**

<table>
<thead>
<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>JULIA BERNSTEIN</td>
<td>Assimilation and Acculturation in Guyanese-American teenagers in Schenectady</td>
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<tr>
<td>JEFF HYDE</td>
<td>&quot;They can do that?: Issues of Identity, Privacy, and the Commercialization of Facebook</td>
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<tr>
<td>KARA LIGHTMAN</td>
<td>Domestic Violence in Cambodia</td>
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<tr>
<td>EMMA SANDS-MILSOM</td>
<td>The Evolution of Vegetarianism</td>
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**Moderator:** Karen Brison

#### Arts Building—215

**Mixed**

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<tr>
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<tbody>
<tr>
<td>LUCIA REED</td>
<td>The Proper Role of Religion in the Public Schools</td>
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<tr>
<td>REBECCA SEEL</td>
<td>American</td>
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<tr>
<td>KAITY MODESTO</td>
<td>&quot;Fly Like a Bird&quot;</td>
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<tr>
<td>ROBERT SHIRLEY</td>
<td>Public Displays of Political Action</td>
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**Moderator:** Zoe Oxley

#### Bailey Hall—201

**Neuroscience**

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<tbody>
<tr>
<td>TATUM WEISHAUP'T</td>
<td>Academic Stress in First Year Students</td>
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<tr>
<td>STEPHANIE MUGNAI</td>
<td>Effects of Therapeutic Horseback Riding on Behaviors from the Autism Spectrum</td>
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<tr>
<td>CASSANDRA BLANCHETTE</td>
<td>Investigation of Ppt1 and other lysosomal storage disease genes during Drosophila neurogenesis</td>
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<tr>
<td>DEIRDRE FINNEGAN</td>
<td>Functional MRI and Eye Movement Desensitization and Reprocessing</td>
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**Moderator:** Steve Romero

#### Bailey Hall—207

**Economics I**

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<tr>
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<tbody>
<tr>
<td>PETER PETERS</td>
<td>Should Denmark Join the Netherlands in the Euro Zone?</td>
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<tr>
<td>VALENCIA STARR</td>
<td>The Effect of Revitalization of Downtown Schenectady on the Low Income Population</td>
</tr>
<tr>
<td>RYAN BOWES</td>
<td>Health Care: Is the Single Payer System Right for the United States?</td>
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<tr>
<td>SHAWN JOHNSTON</td>
<td>Alumni Giving at Union College: An Economic Evaluation of the Determinants of Alumni Giving Behavior</td>
</tr>
</tbody>
</table>

**Moderator:** Brad Lewis

#### Bailey Hall—312

**Psychology III**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANA HWANG</td>
<td>Survival Processing: Is The Human Memory System Fine Tuned to Remember Survival Relevant Information?</td>
</tr>
<tr>
<td>ELIZABETH FORTIER</td>
<td>Social Context and its Effect on Personnel Selection Decisions of High and Low Self-Monitors</td>
</tr>
<tr>
<td>SUSAN GRIFFIN</td>
<td>The relationship between film and culture: the effectiveness of film on shaping attitudes toward homosexuality</td>
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<tr>
<td>HUAN CHEN</td>
<td>Children’s Perceptions of Cyber Bullying vs. Traditional Bullying</td>
</tr>
</tbody>
</table>

**Moderator:** Kenneth DeBono
Session IV

2:00 – 3:20 p.m. Concurrent Oral Presentations

Humanities Building—014

English Honors Thesis II

Moderator: Judith Lewin

RANDEL BLEEKER
"Doctoring is a human act": Emotions, Connections, and Relationships in Medical Memoirs.

LAUREN OBST
Enchanted Reflections: Transforming through Beauty and the Beast’s Looking Glass

KARA MCCABE
The Struggle of Love and Sex: A Study of D.H. Lawrence’s Relationship to Women in Sketches of Life

Humanities Building—019

Moderator: Erika Nelson

A Case for Community Service Learning: Serving Schenectady's Salvation Army

BRIAN KARIMI-PASHAKI
Increasing the Efficiency and Effectiveness of the Salvation Army

ELIZABETH LANZA
Behind the Scenes at the Salvation Army

REBECCA ROBINSON
Sharing Stories of the Salvation Army

LAUREN SHEVLIN
Creating a Program of Change: Union Serving Schenectady --Students and the Soup Kitchen

Humanities Building—112

Moderator: Hans-Freidrich Mueller

Classics III

MATTHEW ANGELOSANTO
Roman Cultural Attitudes toward the Environment in Ovid’s Metamorphoses

JACQUELINE BLONSTEIN
Revealing Role of Priests in Valerius Maximus

ANDREW KEHL
Romanization in the Greek East: Religious, Historical and Literary Identity

SAMANTHA COHEN
Greco-Roman Conquest of Egypt

Olin Building—106

Moderator: Nicole Theodosiou

Biological Sciences III

MARIA-CLAIRE PIETAK
Analysis of the Uptake Efficiency of Novel Cell Penetrating Peptides

DANIELLE KIMBLE
Color polymorphism in Plethodon cinereus: Mutations in the Melanocortin-1 Receptor

CARLY HYATT
Characterizing cell proliferation during gut looping in the developing chicken embryo

CAROLINA DEN HARTOG
Aquaporin Expression in the Distal Spiral Intestine of the Little Skate, Leucoraja erinacea

EMMA LABRROT
Session IV

2:00 – 3:20 p.m.  Concurrent Oral Presentations

Olin Building—115  
Biochemistry II  
Moderator: Steve Horton

**ALYSSA GOLDBERG**  
Investigating the role of a metacaspase in the mushroom fungus *Schizophyllum commune*

**COLETTE HYATT**  
Investigating the role of cyclic AMP signaling in mushroom development in the spilt gill fungus, *Schizophyllum commune*

**MARTI GABRIELLA**  
Expression and purification of scp1, a yeast metacaspase homolog, from *Schizophyllum commune*

**DEVIN HARRISON**  
Development of an undergraduate laboratory: indentification of an unknown tripeptide

Olin Building—306  
Electrical Engineering I  
Moderator: James Hedrick

**JONATHAN GOLD**  
Applications of Piezoelectrics as a Battery-less Power Source

**KONSTANTIN AVDASHENKO**  
Snowflake Analysis Using a Scanning Electron Microscope

**THOMAS DILAURA**  
Implementation of MIT’s Teaching AFM for an Undergraduate Course in Nanotechnology

**KATHLEEN RUCCI ANDREW BARHITE**  
Using an Ultrasound to Detect Vibrations in Musical Instruments and The Human Voice

Olin Building—307  
Environmental Science & Geoscience III  
Moderator: Laura MacManus-Spencer

**JONATHAN CAMPANO**  
Video journal of a geologist: A week of explosions, ash, pyroclastic flows and rocks

**DANIEL BOWDEN**  
A Baiting Technique to Reduce the Prevalence of Raccoon Roundworm in Allegheny Woodrat Habitat

**JOSEPH CATALANO**  
Anisotropy of magnetic susceptibility and geochemistry The Hyde School Gneiss and Rockport Granite, Northwest Adirondack Lowlands

**MICHELLE WU**  
Sorption of ultraviolet filter chemicals to sediment

Science & Engineering Center—N205  
Energy Studies and Environmental Engineering  
Moderator: Richard Wilk

**MATTHEW ADAMS**  
Optimization of Building Energy on 712 Roger Hull Place

**ANDREW HEISER**  
Performance of Pervious Rubberized Concrete in Severe Freeze-Thaw Conditions

**MALYSA CHENG KEVIN DONOVAN**  
ME/EE Hybrid Wind Turbine for the Union College Campus

**DAVID SANDERS**  
Environmentally Friendly Building
2:00 – 3:20 p.m. Concurrent Oral Presentations

Science & Engineering Center—N304

Moderator: Bill Keat

Mechanical Engineering II

ROBERT POWELL
The Study of Humpback Whale Fins for Improved Airfoil Aerodynamics

PATRICK LINGANE
The Design and Fabrication of a Micro Mechanical Dragonfly

WENDY BEATTY
The Automation of Weaving

BRIAN HURLEY
Optimization of a Next Generation Submersible

Social Sciences Building—012

Moderator: Michele Angrist

Political Science II

DEVIN BRODA
The Political Development of the Modern Drug Enforcement Regime

ARIEL SINCOFF-YEDID
Incorporating Men into Development in Gender in the Arab Muslim World

DANIEL SCHIMMEL
Genocide and the Obligation of the International System to Distant Peoples

LAURA DENIGRIS
Student Political Protest of the Sixties and its Legacy

LYNDSAY WEHRUM
The Torture Policy: U.S. Torture and Its Discontents

Social Sciences Building—016

Moderator: David Cotter

Sociology III

RACHEL KORMAN
Sex Tourism and the Sex Industry in Thailand: Why this is a national and international problem and what is being done to help eradicate it

ELIZABETH ACKLEY
Enhancing Academic Performance through Art in Schenectady Youth

MARGARET LICHT
Eldercare in the United States: A Study of Nursing Homes and Quality of Life

RACHAEL CARSON
The World’s Largest Tobacco Consumer: The role of China’s Societal Customs and Socialist Government in the Smoking Epidemic

Social Sciences Building—017

Moderator: Steve Schmidt

Economics Honors III

SAMUEL ELIAS
Does the Inclusion of a Pension Plan in a Workers Contract Affect Their Wages?

RYAN SELVIDIO
The Economic Benefits of Different Tax Structures

ALLEN PIEKARA
Entrepreneurship in America

AMAR SHAH
Effects of Disability Management Initiatives on Productivity
Session V

3:30 – 5:10 p.m. Concurrent Oral Presentations

Bailey Hall—207

Economics II

Moderator: Tomas Dvorak

DANIEL HANLEY
Financial Literacy Among Union College Faculty and Staff

JOHN SCHLICK
The Effect of Foreign Ownership on U.S. Companies

SHAYNA TOUBMAN
Are women more generous than men?

GABRIELA WINTNER
Do Schools Level the Playing Field?

Bailey Hall—312

Psychology IV

Moderator: Linda Stanhope

MARIA TOBIN
Improving Photo Retrieval in a Web Browser’s History

AMY SCHECK
Including Children with Disabilities in Mainstream Classrooms: Opinions of Future Parents

CLANCY SLACK
Factors that Influence Public opinion Regarding Gay and Lesbian Adoption

EMILY STEMPLER
Self-Monitoring and Theory of Mind in Three to Five-Year-Olds

VANESSA TYLER
Effects of self-monitoring on susceptibility to active and passive peer pressure to date during early adolescence

Humanities Building—014

English Honors Thesis III

Moderator: Judith Lewin

JENNA FRISCH
Social Constructs: The American Dream and Masculinity

MARGARET LEVINE
Creating Feminine Science Fiction: A Cixousian Analysis of Ursula Le Guin

MICHAEL MONTESSANO
We Hailed at the Twilight: A Cry for America, A Cry for Ourselves

CHRISTINA VINCENT
Drawing Out the Devil: An Examination of Milton’s Satan, Sin, and Death through Freudian and Jungian Analysis

Humanities Building—019

Mexican-American Border Mini Term

Moderator: Victoria Martinez

JARED IACOLUCCI
The Battle for the Border: Working Conditions and Immigration Policy Along the U.S.-Mexico Border

ERIN SCHUMAKER

MARGARET MCRUIZ
Just Across the Fence: Daily Life for Mexican Migrant Workers and Other Border Residents

MARIE SCHUBERT
Border Fence--or Border Scar?

CHRISTINA MALDONADO
### Humanities Building—112

**Moderator:** Hans-Freidrich Mueller

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<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Rachel Hogue</td>
<td>Apiculture in the Ancient Mediterranean World</td>
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<td>Peter MacDonald</td>
<td>Preserving Our Ancestor’s Vision: American Neoclassical Architecture-Its Influential Role in the Foundation and Establishment of Our Nationalist Order</td>
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<td>Samuel Wengrovius</td>
<td>Night in Plutarch’s Lives</td>
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<td>Kelly Zebrowski</td>
<td>Nazi Germany: An Empire Borrowed From The Classical World</td>
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### Biological Sciences IV

**Moderator:** Brian Cohen

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<tr>
<th>Presenter</th>
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<tr>
<td>Jillian Bannister</td>
<td>Analysis of Shi Wei Bai du Tang and Federal Oversight of Dietary Supplements</td>
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<tr>
<td>Kevin McKenzie</td>
<td>The Investigation of Follicle Stimulating Hormone Receptor in Plasma Membrane Microdomain Residency</td>
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<tr>
<td>Amy Nestlerode</td>
<td>Role of Lipid Rafts in Follicle Stimulating Hormone Signal Transduction</td>
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<tr>
<td>Christian Sikora</td>
<td>Effects on signal transduction of S80A and S80E isoforms of caveolin-1 and its interaction with Human Follicle Stimulating Hormone</td>
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### Aerogels

**Moderator:** Mary Carroll

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<tbody>
<tr>
<td>Michael Bono</td>
<td>Fabrication of an Aerogel Composite Catalytic Converter</td>
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<td>Lauren Brown</td>
<td>Fabrication of Titania Aerogels using the RSCE method</td>
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<tr>
<td>Matthew Sherman</td>
<td>Modifying the Mechanical Strength of Aerogels</td>
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<td>Chris Backlund</td>
<td>Luminescent Probes of Hydrophobic Silica Aerogels</td>
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<tr>
<td>Vincent Gillick</td>
<td>Fabrication and Characterization of Drug-Doped Aerogels</td>
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### Electrical Engineering II

**Moderator:** Helen Hanson

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<th>Presenter</th>
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<tr>
<td>Patrick O’Hern</td>
<td>A Singer’s Guide to Vocal Disorders</td>
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<tr>
<td>Matthew Statton</td>
<td>Biofeedback Training System for Improved Athletic Performance</td>
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<tr>
<td>Malcolm Dennison</td>
<td>Renewable energy: Pico Hydro Power Generation</td>
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<tr>
<td>Edward Hancock</td>
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</tbody>
</table>
3:30 – 5:10 p.m. Concurrent Oral Presentations

Science & Engineering Center—N304

Moderator: Ashok Ramasubramanian

**Mechanical Engineering III**

**JOHN BOYLE**
Using Liquid Crystals to Measure Shear Stresses in Cells

**EDGAR ALOR**
Tractor Trailer Drag Reduction

**JASON CURTIS**
Hydrogen Internal Combustion Engines: Optimizing Fuel Tracers

**MATTHEW ADAMS**
In-vivo measurement of strain field gradients in an amphibian heart after artificially-induced myocardial infarction

**STEVEN HOPENGARTEN**
Design and Fabrication of a Full Suspension Mountain Bike Suspension System

Social Sciences Building—012

Moderator: Cliff Brown

**Political Science III**

**HUGH CAREY**
Biography of Governor Hugh L. Carey

**ALAN COHOLAN**
Science and Lobbying Concerning Global Warming

**TREVOR FLIKE**
The Political Thought of William F. Buckley, Jr.

**ARON MANDEL**
The Economy’s Effects On Gubernatorial Elections

Social Sciences Building—014

Moderator: Mark Walker

**History II**

**ADAM KOSLIN**
Economic, Political, and Ideological Development in Post-Reconstruction Virginia

**BETH SOLOMON**
Social Theories Behind the Growth and Development of the German Universities

Social Sciences Building—016

Moderator: David Cotter

**Sociology & Africana Studies**

**GILLIAN RUSSO**
Women in the Military

**JAMIE KRASNOFF**
The Affect of Hip Hop Culture on America

**MADELYN DE LEON**
An Assesment of Health Education in New York City Public Schools

**MONICA VIELKIND**
Childhood Obesity: Integrating the Individual and Public Health Perspectives

**TATUM WEISHAUPT**
Adolescent Sexual Health in Schenectady: Improving Public Health Programming

Social Sciences Building—017

Moderator: Stephen Schmidt

**Economics Honors IV**

**OMAR JILANI**
Effect of Maternity-Leave Policies on Fertility Rates in OECD Countries

**MATTHEW COOK**
Antitrust Law and Illinois Walls

**CHELSEA HARGIS**
Do Gambling Establishments Increase White-Collar Crime

**ANDREW MACKENZIE**
The Heuristic Search Model of Bounded Rationality

**JACOB SHAFFREN**
A New Cold War? A Game Theoretical Analysis of a Chinese and Venezuelan Relationship
Session V

4:00 – 5:30 p.m. • Theater & Dance Department

NOTT MEMORIAL
Dance Performances

Faculty Sponsor & Show Director – Miryam Moutillet

Faculty Choreographers Miryam Moutillet, Carla Domenico-Wasbes and Marcus Rogers

Stage Manager Darrell Tulcin

Live Music by Nine Inch Nails Andy Iorio – Musical Director
Tristan Allen - Keyboard
Jake Klein – Drums
Julio Vidal - Guitar
Will Wilkins – Bass

Dance Experience Collaborative

Just Like You Imagined Directed by Miryam Moutillet
Created and performed by Valerie Angell, Julia Friedman, Krystle Gallo, Shauna Keeler, Jennifer Lachance, Kira Moldow, Jessica Nagourney, Erin Schumaker, Emily Stano and Samantha Zayas

Physical Theatre

The Hand that Feeds Directed by Miryam Moutillet
Created and performed by Valerie Angell, Zachary Barash, Annie Benfield, Sarah Coleman, Kira Moldow, Lacey Morgan, Thomas Perry, Ayanna Vinson-Dobson and Samantha Zayas

Dance Projects

A Warm Place Choreographed and performed by Annie Benfield and Amelia Patten-Whitney

I’d Rather Dance Choreographed by Erin Bligh
Dancers: Joey Abate, Valerie Angell, Erin Bligh, Peter Bonventre, Dave Sayles and Samantha Zayas

Toxic Waste Choreographed by Jennifer Fleischer and Katie Nevingham
Jennifer Fleischer, Shauna Keeler, Katie Nevingham, Kaitlyn O’Connor, Katie Sofia and Julie Vairo
Ballet III

**Zero-Sum**  
*Choreographed by Miryam Moutillet*  
Dancers: Colleen Easton, Shauna Keeler, Danielle Kreig, Alexandra Lindsay, Kira Moldow

Modern Choreography

**The Mark Has Been Made**  
*Choreographed by Miryam Moutillet*  
Dancers: Annie Benfield, Jen Fleischer, Shauna Keeler, Danielle Kreig, Lacey Morgan, Katie Newingham, Nozomi Sakata, Ayanna Vinson-Dobson and Amelia Patten Whitney

Jazz Choreography

**Just Dance**  
*Choreographed by Marcus Rogers*  
Dancers: Anna Finlay, Krystle Gallo, Emily Lnenicka, Kaitlyn O’Connor, Julie Vairo, Amanda Wiener and Samantha Zayas

Tap Dance

**Retox the Freak**  
*Choreographed by Marcus Rogers*  
Dancer and Drummer: Jacob LaRocca

Dance Team

**Break the ice, ice Baby**  
*Choreographed and performed by*  
Amy Cerini, Jen Fleischer, Rachel Fitz, Krystle Gallo, Amy Gold, Adrienne Hart, Sara Mark, Kira Moldow, Andrea Morehouse, Jessica Nagourney, Robin Panella, Rachael Singleton, Katie Sofia and Emily Stano

Ballroom Dance Club

**Buleria**  
*Choreographed by Amber Woerner*  
Dancers: Joey Abate, Valerie Angell, Zachary Barash, Erin Bligh, Pete Bonventre, Emily Burgess, Megan Hyndman, Ben Miles, Dave Sayles, Maggie Wilson, Samantha Zayas and Adam Zinman

Bhangra Union

*For this performance, we want to thank*
*The International Education Foundation (IEF)*  
*Dean David Hayes / Arts and Sciences*
*The Theater Program for their technical support*
Visual Arts Exhibition — May 1st and 2nd

Burns Arts Atrium Gallery • Arts Building

Traditional and Digital Photography

Faculty sponsor
Martin Benjamin:
Meredith Brandon
Emily Burgess
Pert Divis
Brittany Felton
Alexandra Giromini
Lindsey Goldberg
Russell Goldenberg
Meghan Haley-Quigley
Jared Hotaling
Toby Leeger
Steven Leung
James Morton
Dan Phakos
Alec Rosen
Megan Sesil
Jonathan Scheff
Caitlin Sullivan

Digital
Faculty sponsor
Fernando Orellana:
Beth Culp
Allie Kuzcko
Will Pinkston
Joe Randazzo
Jan Spidlen
Sarah Scott
Brace Thompson
Megan Sesil
Steven Leung
Julia Vu
Joe Randazzo
Jan Spidlen
Carolyn Canetti
Albert Bramble

Printmaking, Design Fundamentals and Advanced Drawing Exhibition

Faculty Sponsor
Sandy Wimer:
Drawing II:
Katherine Cissel
Kevin Fallon
Bianca Germain
Aaron Levine
Kate MacEwan
Printmaking:
Denly Lettsome
Emmaline Payette
Megan Sesil
Brace Thompson
Wesley Whitaker
Mary Frank
Lauren Muske
Hilary Salander
Robert Shirley
Elsa Perushek
Paul John
Design Fundamentals:
Elsa Perushek
Independent study in printmaking and drawing:
Ian Brennan

Sculpture

Faculty sponsor
Chris Duncan:
Samantha Boldt
Michael Bono
Albert Bramble
Lisa Cresenzo
Tara David
Robert Shirley
Anne Terkovich
Nancy Wilk

Drawing & Painting

Faculty Sponsor
Walter Hatke:
Emily Burgess
Brittany Gilbert
Elizabeth Hart
Annabelle Murphy
Sophia Tamura
Hilary Zelson
Union College Jazz Ensemble

Saturday, May 2, 2009 • 1:00-2:00 p.m.

Professor Timothy Olsen, Director
Taylor Music Center
Fred L. Emerson Foundation Auditorium

FLUTE
Jessica Nagourney '12

SAXES
Greg Bloom '11
Peter Bonventre '11
Charles Fontana '09
Devin Harrison '09

TRUMPET
Rachel Finkelstein '12
Nikhil Patel '09
Nick Potvin '09

TROMBONE
Sara Deady '12
Jacob LaRocca '12

VIBES
Tom Perry '09

PIANO
Luke Bryden '09
Tom Perry '09
Geoffrey Raynor '09

GUITAR
David Kislik '10

BASS
Jacob Witkop '12

DRUMSET/PERCUSSION
Andrew Donnelly '10
William Hernandez '09
Jakob Klein '09

VOCALS
Yubin Choi '11
William Hernandez '09
The Union College Department of Music presents

Steinmetz Concert 2009

by

The Union College Camerata Singers
Victor Klimash, Conductor
and

The Union College and Community Orchestra
Victor Klimash, Conductor
with

Wesley Pyen ('09), Violin

8:00pm — Friday, May 1, 2009
The Union College Memorial Chapel

Program

I

Four Motets
Maurice Duruflé (1902-1986)

Ubi caritas
Tantum ergo
Tota pulchra es, Maria
Tu es Petrus

The Union College Camerata Singers

II

The Hebrides Overture (Fingal’s Cave)
Felix Mendelssohn (1809-1847)

The Union College and Community Orchestra

III

Concerto for Violin and Orchestra, Opus 48
Dmitri Kabalevsky (1904-1987)

Allegro molto e con brio
Wesley Pyen ('09), Violin

IV

A Lincoln Portrait
Aaron Copland (1900-1990)
The Union College Camerata Singers  
Victor Klimash, Conductor • Lyda Urresta, Assistant to the Conductor

<table>
<thead>
<tr>
<th>Soprano</th>
<th>Alto</th>
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<tbody>
<tr>
<td>Heidi Ching</td>
<td>Faryn Freireich</td>
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<td>Emily Lnenicka</td>
<td>Emily Karam</td>
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<td>Kara McCabe</td>
<td>Eliana Lakritz</td>
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<td>Lyda Urresta</td>
<td>Lauren Obst</td>
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<th>Tenor</th>
<th>Bass</th>
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<tr>
<td>Emmett O’Connell</td>
<td>Zachary Barash</td>
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<tr>
<td>Nicholas Potvin</td>
<td>Phillip Castonguay</td>
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<td>Geoffrey Raynor</td>
<td>Evan Kalkbrenner</td>
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<tr>
<td>Alex Schlosberg</td>
<td>Raymond Marini</td>
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The Union College and Community Orchestra  
Victor Klimash, Conductor • Rachel Gray, Assistant to the Conductor

<table>
<thead>
<tr>
<th>Violin I</th>
<th>Violin II</th>
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<tbody>
<tr>
<td>Wesley Pyen</td>
<td>Marion Kouzan</td>
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<tr>
<td>Shalini Singaravelne</td>
<td>Patrick J. Lingane</td>
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<tr>
<td>Ted Mihran</td>
<td>Moe Brand</td>
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<td>Virginia Traver</td>
<td>Janet Weick</td>
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<td>David Wilkinson</td>
<td>Carol Blom</td>
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<td>Ann K. Seidman</td>
<td>Virginia Gordon</td>
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<td>Shabana Hoosein</td>
<td>Carol Meyer</td>
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<td>Brian Rosenblatt</td>
<td>Elizabeth Graham</td>
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<td>Jayne McCann</td>
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<td>Gino Bianchi</td>
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<tr>
<th>Viola</th>
<th>Violoncello</th>
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<tbody>
<tr>
<td>Samuel Yoon</td>
<td>Cathie-Jo Brun</td>
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<td>Rachel Farnum</td>
<td>Tim Johnson</td>
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<td>Edith Kliman</td>
<td>Karen Brooks</td>
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<td>Darren Del Dotto</td>
<td>Nancy Teichner</td>
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<td>Lily Marto</td>
<td>Ellen Gunst</td>
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<td>Karl O. Brosch</td>
<td>Beatrice Kovasznay</td>
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<td>Peggy Gerardi</td>
<td>Oakley Frost</td>
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<td>Misty Shah</td>
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<tr>
<th>Flute</th>
<th>Contrabass</th>
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<tbody>
<tr>
<td>Cassie Blanchette</td>
<td>Elana Korn</td>
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<td>Johannah Ryan</td>
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<tr>
<th>Clarinet</th>
<th>Oboe</th>
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<tbody>
<tr>
<td>Alex Post</td>
<td>Rachel Gray</td>
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<tr>
<td>Ajay Major</td>
<td>Camille Mori</td>
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<tr>
<td>English Horn</td>
<td>Bassoon</td>
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<tr>
<td>Diane S. Baltazar</td>
<td>Katie Jordan</td>
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<td>Nehal Thakkar</td>
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<tr>
<td>Gus Birkhead</td>
<td>Vince Castelli</td>
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<td>Josef Schmee</td>
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<td>Robert Viets</td>
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<tr>
<td>Trombone</td>
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<td>Richard Hunsberger</td>
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<td>Wesley Smith</td>
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<td>Jacob LaRocca</td>
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<tr>
<td>Connor Dodd</td>
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